Webservice basic interview Question

1. What is SOA
2. How to test the Application without GUI
3. What is middleware testing?
4. What are main differences between API and Web Service?
5. Difference between Unit testing & Web-service API testing
6. Difference between frontend & Backend testing
7. Difference between Soap webServcie & Rest WebService
8. Difference between XML & JSON language
9. What is API ?
10. Why API testing is required?
11. What is Web Service ?
12. Why WebService testing required ?
13. What is the Advantages of Webservice
14. Types of WebService testing
15. What is RestFull
16. Which scripting language will use in REST and SOAP Web Service
17. What is the syntax of URL & explain?
18. Difference between URL and URI
19. What is httpMethod ? explain https method required in webservice testing
20. What is CRUD operation
21. What is status code & list out the status Code?
22. What exactly you verify in Webservice API testing
23. Prerequisite for WebServcie testing ?
24. What is Query parameter & why its required ?
25. What is the properties of the HttpRequest
26. What is the properties of the HttpResponse
27. How you used to verify your API using Front End? Are you using any Tool?
28. Any API debugging tool which you used
29. . How are you passing your data (required info) while testing APIs?
30. What is Caching? Advantages and Disadvantages
31. What are cookies? Advantages and Disadvantages

**RestAssured introduction Interview Question:**

1. What is ResAssured
2. Why Restassured for API testing and why not PostMan?
3. Why ResAssured is popular
4. Pre requsite for RestASsured
5. Rest Assured supported languages?
6. Advantages of Rest Assured?
7. What is use of RestAssured class in restAssured?

**RestAssured Architecture Interview Question:**

1. RestAssured is a class or interface ?
2. What is the use of RequestSpecification API in restAssured;
3. What is the use of RequestSpeBuilder API in restAssured;
4. What is the use of Response API in restAssured;
5. What is the use of ResponseSpeBuilder API in restAssured?
6. What is the use of ValidatbaleResponse API in restAssured?
7. What is the return type of all CRUD Methods?
8. Why HTTP methods available in Both Restassured as well as RequestSpecification

**RestAssured- CRUD Operation**

1. How to perfrom CRUD operation in restAssured?
2. How many ways we can create a post Request in RestAssured ?
3. How to post complex Request In RestAssured?
4. Advantages of BDD in RestAssured
5. How to use BDD feature in RestAssured?
6. What is the use given(), when() , then() in RestAssured?

**Serilization**

1. What is serilization and deseilization?
2. Why serilization required in API testing
3. Have you used in Parsing tool JSON serilization
4. How to convert JAVA🡺 JSON and JSON 🡺JAVA
5. What is ObjectMapper?
6. What is POJO class?
7. Can you write one POJO class

**Complex post request**

1. How many ways we can post a request via RestAssured?
2. How to post a complex request
3. Can you write one restassured program to post complex request
4. Where do you use hashmap in restassured and why
5. Why JobjectObject class is required in restassured
6. Why pojo class required in restassured

**Response validation with RestAssured Assertion**

1. What exactly you verify in response
2. How to put assertion in restassured?
3. What exactly you verify in response header
4. What exactly you verify in response Body
5. How do we verify the response time in response
6. How do we verify the complex response in jsonbody
7. What Jsonpath and write few example?
8. How do we verify the dynamic response
9. How to capture the multiple data from Complex jsonbody
10. How to extract required data from response
11. Write one complex response body
12. Why JSONPATH libraries reqyuured in RestAssured
13. Write one Complex JSonXpath for the response body
14. Any open source toll used to write jsonpath ?
15. How to traverse in JSON response body
16. What is connection = alive
17. What did you verify in response header and body

**Request chaining**

1. What is request chaining ?
2. Write one sample program for request chaining
3. How to automate end to end scenario in API testing
4. How to automate micro webservice architecture based application
5. Write one sample restassured program for request chaining

**Type of parameters**

1. What is API parameter and explain the types parameter?
2. Difference between path and Query parameter
3. Difference between from and Query query parameter

**Authentication**

1. What is Authentication and authorization in API testing
2. Explain type of authentication
3. What is oauth protocol in api testing
4. Difference between digestive and preemptive auth
5. Difference between Outh1.0 and Outh2.0
6. What is bearer token authentication?
7. What is the status code of Forbidden and unauthorized

**Encryption and Decryption**

1. What is encryption ?
2. What is encoding
3. Difference type of encryption
4. What is public and private key in encryption
5. Which encryption technique used in restassured in basic auth
6. What is BASE-64 encryption

**Data driven testing**

1. Why data driven testing in rest api testing
2. How to execute same API request with multiple set of data
3. Write one sample program to execute API with multiple data
4. Why random class in API testing
5. Advantages of data driven testing

**Data Simulation**

1. What is synthetic data
2. What is data simulation tool, and why required?
3. How many ways to develop data simulation tool
4. What to create data simulation tool

**Mocking**

1. What is mock/Stub/ data virtualization
2. Why mock is required in testing
3. Why you used any tool to develop mocking
4. What is mock data and mock server?
5. How to create mock server
6. Difference between data simulation and mocking
7. Where did you used mocking solution in your previous project?
8. Can we develop mocking solution for dependent business module?
9. Can we develop mocking solution for third part application which integrated via API ?
10. How run mock server ?
11. Write one sample restassured to program to use mock server

**Utility**

1. Explain the type of utility used in your API Framework?
2. What generic and business utility
3. Write few sample rest API utility used in framework?
4. Explain the advantages of utilities

**Unit testing**

1. Which unit testing tool used in your Framework
2. Explain the annotation used in your framework
3. How to execute batch in api testing?
4. How to execute same suite in difference environment
5. Where do SET BASE\_URI and AUTH
6. What is use RequestSpecBuilder and ResponsespecBuilder in API testing and where its being used in you framework

**END points**

1. . what is endpoints
2. . Where did you kept end points in your framework
3. . How may end points you tested in your framework

**Rest Assured FrameWork**

1. . explain the restassured framework components
2. . Explain the execution flow of the framework components
3. . Can we execute restAssured framework via JEnkins

**Others**

1. . How to handle SSL & TSL certification in restAssured?
2. . what is GRPC in API testing
3. . what is GRPH-QL in api testing
4. . how to handle cookies in api testing
5. Can we handle OTP in api testing
6. . how to upload image in API testing